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EXAMINER

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2157

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Please find below and/or attached an Office communication concerning this application or proceeding.



## **DETAILED ACTION**

### ***Status of Claims***

1. This communication is responsive to amendment filed on July 3, 2006, where applicant amended claims 35-37. Claims 1,2,4-19,21-40,42 are pending.

### ***Response to Arguments***

2. Applicant's arguments filed 1/26/2006 have been fully considered but are moot in view of the new ground(s) of rejection.
3. Examiner withdraws nonstatutory obviousness-type double patenting rejection over claims 1-6 of copending Application No. 10/968,555.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1,19,33 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

After detailed review of the specification, it is found that while being enabling for the majority of each independent claim (for example, claim 1 lines 1-17), the specification does not

Art Unit: 2157

mention the last limitation of each claim (for example, claim 1 lines 18-19). Claim 1, for example, contains the limitation “after transmitting the modified web page source data to the remote client, transmitting the original web page source data to the remote client including the characters that were removed” on lines 18-19. This is not found in the specification because there is no mention of a mechanism that performs this particular function. The necessary steps needed to transmit the original web page source data are not known. There is no mention of an art-recognized methodology to follow in order to implement this limitation. Therefore the written description is inadequate, in regards to this limitation, and would not allow one skilled in the art to envisage, make or use the inventive limitation.

6. Claims 1,19,33 rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the majority of each independent claim (for example, claim 1 lines 1-17 are enabled), does not reasonably provide enablement for the last limitation of each claim (for example, claim 1 lines 18-19 are not enabled). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

Claim 1, for example, contains the limitation “after transmitting the modified web page source data to the remote client, transmitting the original web page source data to the remote client including the characters that were removed” on lines 18-19. In applicants specification, applicant has only mentioned a mechanism that can send a smaller version of an original image to a client, and thereafter send the original unmodified version of the image to the client (see specification pages 9,13,18-20). Sending of the original unmodified version of the image entails

Art Unit: 2157

rewriting a hyperlink in the web page source data that will prompt the browser to request the original unmodified image (see specification page 19).

However, there is no mention in the specification of a mechanism that performs the function of: "after transmitting the modified web page source data to the remote client, transmitting the original web page source data to the remote client including the characters that were removed". It is unknown how this is done and what art-recognized methodology is followed to implement this limitation. The inadequate written description, in regards to this limitation, would not allow one skilled in the art to envisage, make or use the inventive limitation.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. **Claims 1,5-8,9,10,13,16-19,23,24,27,30-33,35,40 and 42 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,049,821) in view of Jungck (US Patent No 6,728,785) in further view of Li (US Patent No 6,327,392).**

9. In reference to claims 1,19 and 33, Theriault teaches a method, a networking device and a corresponding system for transferring web page source data between a web server and a remote client over a computer network, the computer network including a wide area network, the method comprising:

receiving a request for the web page source data from the remote client at an acceleration device (column 7 lines 15-50 and figure 3);

obtaining original web page source data from the web server; identifying within the original web page source data renderable character data and non-renderable character data, the renderable character data being data that affects the presentation of the web page by a browser, and the non-renderable character data being data that does not affect the presentation of the web page by a browser, the original web page source data being in a markup language format (column 5 lines 10-40, column 15 lines 45-67, column 16 lines 1-33);

filtering at least a portion of the non-renderable character data by removing characters of the identified non-renderable character data from the requested web page source data, thereby creating modified web page source data (column 16 lines 1-33, column 17 lines 1-20); and transmitting the modified web page source data to the remote client over the computer network (column 7 lines 15-50 and figure 3).

Theriault fails to explicitly teach wherein the acceleration device is a server-side acceleration device positioned on the computer network intermediate the remote client and the web server and intermediate the web server and the wide area network. However, Jungck teaches a data center (which is an acceleration device) in a reverse proxy configuration (which means server-side, intermediate the web server and the Internet) that compresses web files for the purpose of accelerating web transmissions to a work station (remote client) (column 2 lines 21-25, column 3 line 65 – column 4 line 12, column 6 lines 12-26 and figure 2).

It would have been obvious for one of ordinary skill in the art to modify Theriault by making the acceleration device a server-side acceleration device positioned on the computer

Art Unit: 2157

network intermediate the remote client and the web server and intermediate the web server and the wide area network as per the teachings of Jungck for the purpose of accelerating web transmissions over the Internet to a work station.

Theriault fails to explicitly teach after transmitting the modified web page source data to the remote client, transmitting the original web page source data to the remote client including the characters that were removed. However, Li teaches transmitting a modified image file to a user and then if the user finds that the modified image file is satisfactory, transmitting the full image file to the user so that the user may obtain the full unmodified version of the file and analyze it to the users desire (column 4 lines 30-36 and column 5 lines 25-34).

It would have been obvious for one of ordinary skill in the art to modify Theriault by transmitting a modified page to a client, and transmitting the original page to the client in response to another request from the client for the original page as per the teachings of Li so that the user may obtain the full unmodified version of the file (page) and analyze it to the users desire.

10. In reference to claim 4, Theriault teaches the method and the networking device of claim 1, but fails to explicitly teach wherein the original web page source data is sent to the remote client in response to a subsequent request from the remote client for the original web page source data. However, Li teaches transmitting a modified image file to a user and then if the user finds that the modified image file is satisfactory, transmitting the full image file to the user so that the user may obtain the full unmodified version of the file and analyze it to the users desire (column 4 lines 30-36 and column 5 lines 25-34).

It would have been obvious for one of ordinary skill in the art to modify Theriault by transmitting a modified page to a client, and transmitting the original page to the client in response to another request from the client for the original page as per the teachings of Li so that the user may obtain the full unmodified version of the file (page) and analyze it to the users desire.

11. In reference to claim 6, Theriault in view of Jungck teach the method of claim 1, wherein the web server and the acceleration device are connected by a LAN (Jungck, column 6 lines 20-25).

12. In reference to claim 7, Theriault teaches the method of claim 1, wherein the acceleration device and remote client are connected by a WAN (Theriault, figure 3).

13. In reference to claim 8, Theriault in view of Jungck teach the method of claim 7, wherein the WAN is the Internet (Jungck, column 1 lines 25-30 and column 4 lines 24-26).

14. In reference to claims 9 and 23, Theriault teaches the method and networking device of claims 1 and 19 respectively, wherein filtering at least a portion of the non-renderable character data from the original web page source data comprises removing character data compatible with the HTTP data transfer protocol from the original web page source data (column 16 lines 1-33, column 17 lines 1-20).

15. In reference to claims 10 and 24, Theriault teaches the method and networking device of claims 9 and 23 respectively, wherein filtering at least a portion of the non-renderable character data from the original source data comprises removing HTML data from the original web page source data (column 16 lines 1-33, column 17 lines 1-20).



Art Unit: 2157

16. In reference to claims 13,27 and 35, Theriault teaches the method, networking device and system of claims 10,24 and 33 respectively, wherein filtering at least a portion of the non-renderable character data includes removing comments from the original web page source data (column 16 lines 20-34).

17. In reference to claims 16 and 30, Theriault teaches method and networking device of claims 10 and 24 respectively, wherein filtering at least a portion of the non-renderable character data includes removing commands not interpretable by the remote client from the original web page source data (column 16 lines 1-33, column 17 lines 1-20).

18. In reference to claims 17 and 31, Theriault teaches the method and networking device of claims 1 and 19 respectively, wherein the filtering and transmitting of the modified web page source data over the computer network to the remote client are performed in less time than the original web page source can be directly transmitted from the web server to the remote client (column 4 lines 5-6, column 5 lines 15-25).

19. In reference to claims 18 and 32, Theriault teaches the method and networking device of claims 1 and 19 respectively, wherein the file size of the modified web page source data is smaller than the original web page source data (column 4 lines 5-6, column 5 lines 15-25).

20. In reference to claims 40 and 42, Theriault teaches the system of claim 33, wherein the acceleration device is configured to cache the modified web page source data; and to compress the web resource in real-time before transmission to the remote client (Jungck, column 5 lines 20-45 and column 6 lines 10-30).

**21. Claims 2,5 and 39 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,049,821) in view of Jungck (US Patent No 6,728,785) in**

**further view of Li (US Patent No 6,327,392) in further view of Bodin et al (US Patent No 6,311,223).**

22. In reference to claims 2 and 39, Theriault teaches the method and system of claims 1 and 33, but fails to explicitly teach wherein filtering further includes filtering tags of the web page source data by identifying tags of the web page source data having one or more uppercase characters; and rewriting the identified tags of the web page source data to have the same characters but in lowercase. However, Bodin teaches tokenizing HTML tags to reduce the quantity of data in the file for effective transmission of HTML files (column 2 lines 29-35, column 4 lines 37-47, column 5 lines 30-45 & 59-67 and column 6 lines 20-33).

It would have been obvious for one of ordinary skill in the art to modify Theriault by filtering tags of the web page source data by rewriting tags of the web page source data in lowercase as per the teachings of Bodin so that the quantity of data in the file is reduced for effective transmission of HTML files.

23. In reference to claim 5, Theriault teaches the method of claim 1. Theriault fails to explicitly teach claim 1 further comprising compressing the modified web page source data before sending it to the remote client. However, Bodin teaches compressing a tokenized (modified) HTML file and transmitting it to the user (column 6 lines 32-55).

It would have been obvious for one of ordinary skill in the art to modify Theriault by compressing the modified web page source data before sending it to the remote client as per the teachings of Bodin so that the quantity of data in the file is reduced for effective transmission of HTML files.

Art Unit: 2157

**24. Claims 11,25 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,449,658) in view of Jungck (US Patent No 6,728,785) in further of Isaac et al (US Patent No 6,424,981).**

25. In reference to claims 11 and 25, Theriault teaches the method of claims 10 and 24 respectively, wherein filtering at least a portion of the non-renderable character data comprises removing ASCII format data. "Official notice" is taken that ASCII is old and well-known in the art, as taught by Isaac who teaches that HTML files contain ASCII characters from the original web page source data (column 1 lines 20-50).

It would have been obvious for one of ordinary skill in the art to modify Theriault to state that HTML documents are ASCII coded documents as per the teachings of Isaac because this is a standard for HTML.

**26. Claims 12,26,34,36 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,049,821) in view of Jungck (US Patent No 6,728,785) in further view of Li (US Patent No 6,327,392) in further view Hoffman et al (US Patent No 6,615,266).**

27. In reference to claims 12,26,34 and 36, Theriault teaches the method of claims 10,24 and 33 respectively, wherein filtering at least a portion of the non-renderable character data includes removing white space. "Official notice" is taken that white space is old and well-known in the art, as taught by Hoffman who teaches that whitespace characters are generally ignored in HTML and does not effect presentation formatting (column 2 lines 10-40).

Therefore it would have been obvious for one of ordinary skill in the art to modify the filtering of Theriault who filters at least a portion of the non-renderable character data by

Art Unit: 2157

removing characters of identified non-renderable character data from the requested web page source data, thereby creating modified web page source data (Theriault, column 16 lines 1-33, column 17 lines 1-20) by removing whitespace as per the teachings of Hoffman since whitespace characters are generally ignored in HTML and does not effect presentation formatting.

**28. Claims 14,15,28,29,37 and 39 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,049,821) in view of Jungck (US Patent No 6,728,785) in further view of Li (US Patent No 6,327,392) in further of Edlund et al (US Patent No 6,546,388).**

29. In reference to claims 14,28 and 37, Theriault teaches the method of claims 10,24 and 33, but fails to explicitly teach wherein filtering at least a portion of the non-renderable character data includes meta tags from the original web page source data. "Official notice" is taken that meta tags are old and well-known in the art as being HTML tags that describe some aspect of a web page (via keywords) that can then be used by a search engine for indexing, and is taught by Edlund (Abstract and column 2 lines 5-50).

It would have been obvious for one of ordinary skill in the art to modify Theriault by stating that HTML includes meta tags as per the teachings of Edlund because HTML documents include keywords to be used by search engines for indexing.

30. In reference to claims 15,29 and 38, Theriault teaches the method of claims 10,24 and 33, but fails to explicitly teach wherein filtering at least a portion of the non-renderable character data includes keywords configured to be interpreted by a search engine from the original web page source data. "Official notice" is taken that meta tags are old and well-known in the art as

Art Unit: 2157

being HTML tags that describe some aspect of a web page (via keywords) that can then be used by a search engine for indexing, and is taught by Edlund (Abstract and column 2 lines 5-50).

It would have been obvious for one of ordinary skill in the art to modify Theriault by stating that HTML includes meta tags as per the teachings of Edlund because HTML documents include keywords to be used by search engines for indexing.

**31. Claims 21-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Theriault et al (US Patent No 6,049,821) in view of Jungck (US Patent No 6,728,785) in further view of Li (US Patent No 6,327,392) in further view of Burget (US Patent No 6,557,005).**

Theriault teaches the method of claim 21 above, but fails to explicitly teach wherein the method includes a network communications program logic stored on an ASIC. However, Burget teaches a program for Internet communication stored on an ASIC, as a known medium of storage.

It would have been obvious for one of ordinary skill in the art to modify Theriault to make the communications program which performs the above method to be stored on an ASIC as per the teachings of Burget as it is a known medium of storage in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M. Osman whose telephone number is (571) 272-4008. The examiner can normally be reached on M-F 9-5.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2157

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